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Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 30, 2015

Kerry Goodballet, Director of Permitting
CONSOL Mining Company, LLC
1000 CONSOL Energy Drive
Canonsburg, PA 15317

Subject: 2014 Annual Report Review Completion, Emery Deep Mine, C/015/0015, Task ID #4821

Dear Ms. Goodballet:

The Division staff has completed the review of the 2014 Annual Report. Enclosed is a copy of the review with each reviewer's comments completed on June 30th, 2015. Additional information is required in order to determine that the commitments contained in the Annual Report have been met as outlined in the Emery Deep Mine Mining and Reclamation Plan (MRP). Please provide the following information:

- 1) The Permittee must provide the annual water monitoring summary as discussed in Chapter VI, Section VI.3.1.2, pg. VI-28 (See commitment in attached report).
- 2) The Permittee must provide a P.E. certified impoundment inspection for the Farmers Pond (Outfall 004). It does not appear that a certified impoundment inspection report was provided for the Farmers Pond (Outfall 004).
- 3) The Permittee must provide updated survey data on the accumulated sediment elevations for all of the Emery Deep impoundments. The data is needed in order to verify that the impoundments have sufficient capacity to function as designed. (See discussion on beginning on page 1 of the attached report).

Please provide the additional information by August 7, 2015. If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Permit Supervisor

SKC/sqs

Enclosure

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Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified by the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	CONSOL Mining Company LLC	Mine Name	Emery Deep Mine
Permit Number	C/015/0015	Permit expiration Date	2016-07-01
Operator Name	CONSOL Mining Company LLC	Phone Number	+1 (724) 485-4267
Mailing Address	1000 CONSOL Energy Drive	Email	kerrygoodballer@consolenergy.com
City	Canonsburg		
State	PA	Zip Code	15317

DOGM File Location or Annual Report Location

Excess Spoil Piles

- ☐ Required
☒ Not Required

Refuse Piles

- ☒ Required
☐ Not Required

Impoundments

- ☒ Required
☐ Not Required

Other:

See Appendix A-2 Quarterly Coal Refuse Inspections
See Appendix A-1 Annual Impoundment Inspections

OPERATOR COMMENTS

Underground mining operations have been idle with no production since 12/17/10.

Appendix A-1 (Annual Impoundment Inspections), Appendix A-2 (Quarterly Coal Refuse inspections), Appendix B-2 (Annual Subsidence Survey), Appendix B-2a (Monthly Subsidence Reports), Appendix B-3 (Bryant 14th West Flow), Appendix B-4 (Emery Town Well Report), Appendix D-1 (2010 Annual Report and final MSHA Mine Maps)

REVIEWER COMMENTS

☐ Met Requirements ☒ Did Not meet Requirements

The annual report provided certified impoundment inspection reports for seven of the sediment ponds located at the Emery Deep Mine. The reports were generated by EarthFax engineering and certified by Richard White (State of Utah P.E. # 168246). Evidence of significant erosion or instability at the impoundments was not noted in the reports. However, it appears that a certified impoundment inspection report was not provided for the Farmers Pond (Outfall 004). The Permittee must provide a certified impoundment inspection report for the Farmers Pond.

Based on a review of previously submitted impoundment inspections, it appears that the sediment accumulations in the impoundments have not been surveyed for many years (e.g. Pond 1 and Pond 6 were last surveyed in August of 2010). In some instances the

approximate average sediment elevations are within a foot or less from the 60% clean-out elevation. As such, The Permittee must provide updated survey data on the accumulated sediment elevations for all of the Emery Deep impoundments in order to determine if the impoundments have sufficient capacity to function as designed.

The annual report included copies of the quarterly inspection of the Refuse pile completed on: 4/20/14, 6/21/14, 8/11/14, and 10/25/14 for the Waste rock disposal site. The inspection reports were completed by Quinn Healy, a Utah PE certified professional engineer. The field inspections state that all foundation preparation was completed according to design specification. The reports detail that all slopes showed no signs of instability such as rills, gullies, or sloughage. The Permittee has addressed the requirements of this commitment. (CP-6/15/15) In Appendix A-1, the Permittee provided the annual sediment pond inspection results. The inspections were conducted by Richard White, P.E. EarthFax Engineering Group, LLC.

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: CULTURAL RESOURCE PROTECTION

Objective: To monitor the five eligible cultural resource sites that could be damaged as a result of subsidence in the zero zero north area. Sites include: 42Em3964, 42Em3965, 42Em3969, and 42Em3974.

Frequency: Annually after undermining until the Division determines subsidence is no longer an impact.

Status: ongoing, Undermining has not occurred to date.

Reports: Annual

Citation: MRP, Confidential Binder, Chapter X, Part A, Page 1

Operator Comments

No mining occurred under these sites. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

The Division concurs with the operator's comments regarding the cessation of mining operations in 2010. Underground mining operations have been idle with no production at the site since 12/17/10. Only first mining has been completed in the zero zero north panel with no subsidence. If the mining company resumes active mining operations and begins second or retreat mining in the zero zero north panel the Division will require the company to monitor these sites, 42Em3964, 42Em3965, 42Em3966, 42Em3969 and 42Em3974.

Title: CONTROL OF COAL FINES DEPOSITION

Objective: To prevent coal fines from accumulating on undisturbed soils.

Frequency: Annual inspection of three transects, three sample sites each for % coal, 5 live vegetative cover, and presence of cryptogamic cover and soil color. Include the name of the person collecting the data, soil color data, and cryptogam observation.

Status: Annual inspections should be ongoing during periods of production. The data could be more effectively displayed using an excel spreadsheet so that comparisons of the data and trends may be seen over time.

Reports: Annual report, build on the table provided in Chapter X-C, page 5, with the inclusion of a column for soil color.

Citation: MRP, Chapter X part C, page 5b.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. See Appendix X.C-3a (Emery Mine Coal Dust Plots monitoring Summary) for a compilation of historic data through 2014. Per DOGM approval Task ID #4700, further dust monitoring pertaining to the above will be discontinued indefinitely per CH X-C pg 5b.

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

6/10/2015. Reviewed by P. Burton. Chap X-C p. 5b. states that based on the conclusions of the Emery Mine Coal Dust Plots Monitoring Summary dated May 2014, found in Appendix X-C-3, coal fines will be discontinued starting in 2015. The 2014 report was received on 10/8/2015 and incorporated into the MRP. During operations, an average of 70% of the soil surface was covered with coal fines in a "solid coal layer atop the native soil and was black in color." Measured thickness of the coal deposits ranged from <1 to 10 mm. During operations, percent vegetative cover dropped from an average of 20% in 2004 to an average of 10 -13% in 2009. When the site was idled, the coal fines were reduced to 51 - 58% of the soil surface through incorporation into the soil with an average live vegetative cover of 12.75%. The report reminds us that the reduction in vegetation "cannot be attributed to the presence of the coal fines with any certainty," as the weather does play a part. The report notes that vegetation was stressed in 2012 (a dry year) and was robust in 2013 (suggesting a wet year). The Division concludes that control of coal fines is imperative during operations to prevent off-site deposition. Such controls as that described in the MRP Chap X, Part C, p. 5a and in the Norwest study Chap X-C-3 will resume when the site comes online.

Title: INVESTIGATIVE STUDY INTO RECLAMATION PRACTICE

Objective: To develop an enhanced reclamation plan, based on an evaluation of soil chemistry and vegetation establishment on previous reclaimed sites. (results located in Chapter 11, Appendix 1). This is a four-phase project. Phase I involves reporting on the investigation of past reclamation sites and practices at the mine.

Phase II requires to lower the profile of pond 6 stockpiles, reseed and keep wildlife off piles; reclaim ponds 4 & 5, and pond 1 subsoil pile; adjust final reclamation plans to incorporate beneficial treatments observed such as discing in 1 T/ac straw mulch; modify the seed mix to include only salt tolerant species and allow for a higher percentage of shrubs and forbs; adjust the reference areas to eliminate duplication.

Phase III requires that the applied techniques be evaluated qualitatively annually and quantitatively between the 4th and 6th year. These evaluations will be correlated to precipitation data.

Phase IV requires the permittee to revise the MRP to include the best technology for final revegetation.

Frequency: Ongoing

Status: Phase I has been met. Phase II has been met (2014).

Reports: Qualitative report annually, and quantitative report 4th and 6th year.

Citation: MRP, Chapter III, page 4a, and Chapter III, appendix 1

Operator Comments

Field meetings and historical review were held in April 2014. Three sites were chosen for re-grading and re-vegetation based on soil quality (see CH III pg 4a-4c).

Future vegetative monitoring results will be reported through out the annual report.

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

6/10/2015. Reviewed by P. Burton.

The commitments on p. 4a, Chap III of the MRP outline several steps to be taken to improve our knowledge of reclamation techniques at the site. Item #1 of this plan was completed in 2003. Item #2 of the plan was formulated in April 2014 (Insp. Rpt #3810). The seed mix was reformulated in October (Task 4700). Reclamation study areas were graded, mulched and seed in January 2014 (Insp Rpt # 4081). Soil samples were taken from the regraded areas in Feb. 2015 (Insp Rpt #4118) and the results were incorporated into the MRP in June 2015 (Task 4896).

The reclamation study has now progressed to Item #3, p. 4, Chap III which states that qualitative evaluations of vegetative growth on the stockpiles and contemporaneously reclaimed areas will be performed during the growing season for the next three years, and in year 5. These qualitative evaluations will begin in 2015. In the fourth and sixth years (2018 and 2020) a quantitative evaluation will be performed during the growing season.

Item #4 (p. 4 Chap III) states that following these qualitative and quantitative vegetation surveys, a reclamation plan will be developed to

incorporate the reclamation practices found to be effective in the reclamation study. I concur with the comments provided by P. Burton. [JCH6/30/2015]

Title: WASTE STOCKPILE MATERIAL

Objective: To identify chemical characteristics of material as it is placed on the Temporary Coal mine Waste Stockpile. Sample and analyze waste for acid toxic parameters in accordance with R645-301-731.300.

Frequency: One sample/600 cu yds of coal mine waste brought to the temporary stockpile.

Status: Ongoing

Reports: Provide analysis in annual report.

Citation: MRP, Chapter II, page 10.

Operator Comments

No additional mine waste has been added in 2013. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

6/8/2015. Reviewed by P. Burton. This sampling requirement was added to the MRP in March 2008. No waste was added to the pile after the date of the commitment in 2008 through 2014. The 2014 certified engineering reports are found in Appendix A-2 of the 2014 Annual Report.

Title: SUBSIDENCE MONITORING- MONTHLY INSPECTIONS

Objective: Inspect the area outlined on Plate V-5 as full extraction areas when pillar splitting begins.

Frequency: Monthly until there is no record of additional subsidence.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, Binder 1 of 3, Page 36

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2013 (refer to Appendix B-2, Annual Subsidence Survey).

Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10.12.13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a (Monthly Subsidence Reports).

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

The report provided in the annual report appendix B-2 meets the subsidence requirements of the Emery Deep MRP. The Permittee included a subsidence report and summary table with the annual report. The annual report also included the January through December monthly subsidence inspection forms completed by Russel Jensen of Consol Energy. The monthly subsidence inspection forms also included a monthly comparative photographs of six depressions. From the annual subsidence table the overall range of

subsidence since 2007 ranged from 4.49 ft to an upheaval of 0.32 ft with an average of 0.12 ft. The Permittee has addressed the requirements of this commitment. (CP-6/15/15)

Title: SUBSIDENCE MONITORING- POINTS OVER PARTIAL PILLAR SECTIONS

Objective: monitor points over partial pillar sections that have been resurveyed once and where no significant movement ($<0.5'$) was found will be surveyed within one year. If this subsequent survey shows no significant movement from the original survey, the point will be surveyed again at one year intervals. Points over advancing sections need not be resurveyed unless there has been evidence that subsidence has taken place (caving).

Frequency: As needed

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

Refer to Appendix B-2, 2012 Annual Subsidence Survey

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

The report provided in the annual report appendix B-2 meets the subsidence requirements of the Emery Deep MRP. The Permittee included a subsidence report and summary table with the annual report. The annual report also included the January through December monthly subsidence inspection forms completed by Russel Jensen of Consol Energy. The monthly subsidence inspection forms also included a monthly comparative photographs of six depressions. From the annual subsidence table the overall range of subsidence since 2007 ranged from 4.49 ft to an upheaval of 0.32 ft with an average of 0.12 ft. The Permittee has addressed the requirements of this commitment. (CP-6/15/15)

Title: SUBSIDENCE MONITORING- NEW POINTS

Objective: Resurvey new monitoring points established over advancing sections such as mains and submains within one year after mining has been completed beneath the station. Include dates that points were established to track if the points have been resurveyed within a year after mining has been completed.

Frequency: As needed.

Status: Ongoing.

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

NA, Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. There have been no new monitoring points established over advancing section such as mains and sub mains. (CP-6/15/15).

Title: SUBSIDENCE MONITORING- REPORT

Objective: Subsidence monitoring report containing: 1.) Mine maps showing where pillars have been pulled and the month and year that such pillars were removed or partially removed. 2.) Maps showing the location of survey monitoring stations and tension cracks and/or compression features visible on the surface. 2a.) Photographs of the subsidence monitoring points above the full extraction areas outlined on Plate V-5 to record pre and post subsidence. 3.) The differential level and horizontal survey summary and 4.) a narrative.

Frequency: As needed, report submitted to the Division annually.

Status: Ongoing

Reports: Provide report in annual report.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2013 (refer to Appendix B-2, Annual Subsidence Survey)

Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10/12/13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a, Monthly Subsidence Report.

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

The subsidence report provided in the annual report appendix B-2 meets the subsidence requirements of the Emery Deep MRP. The Permittee included a subsidence report and summary table with the annual report. The annual report also included the January through December monthly subsidence inspection forms completed by Russel Jensen of Consol Energy. The monthly subsidence inspection forms also included a monthly comparative photographs of six depressions. From the annual subsidence table the overall range of subsidence since 2007 ranged from 4.49 ft to an upheaval of 0.32 ft with an average of 0.12 ft. The Permittee has addressed the requirements of this commitment. (CP-6/15/15)

Title: SUBSIDENCE MONITORING- PREMINING ELEVATIONS AND GRADIENTS

Objective: Establish pre-mining elevations and gradients of any irrigation ditches and pond embankments within the angle of draw. The permittee will monitor these areas by visual inspection and post-subsidence ground survey to establish the effects of subsidence.

Frequency: As needed.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

NA, Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. There have been no new monitoring points established over advancing section such as mains and sub mains. There is no need to establish pre-mining elevations and gradients of any irrigation ditches and pond embankments within the angle of draw at this time due to the mine being idle (CP-6/15/15).

Title: SUBSIDENCE MONITORING- MITIGATION REPORT

Objective: Provide, to the Division on an as-needed basis, a subsidence mitigation report that describes the surface mitigation projects and their status broken down by surface land owners.

Frequency: quarterly

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. Annual subsidence surveys were performed in 2014 (refer to Appendix B-2, Annual Subsidence Report).

Monthly subsidence reports of the 00 North subsidence area that was previously mitigated are underway and per DOGM email dated 10/12/13 copies of the monthly subsidence report are being emailed to DOGM and are compiled in the annual report at Appendix B-2a, Monthly Subsidence Report.

Monthly flow measurements of the dam breach panel 14th West (Bryant -14th West) are being taken and data presented in Appendix B-3, Bryant 14th West Flow

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. The subsidence report provided in Appendix B-2 meets the subsidence requirements of this commitment. CP-6-6-15

Title: SUBSIDENCE MONITORING- UPDATE PRE-SUBSIDENCE SURVEY

Objective: Update the existing pre-subsidence survey and plates six months before full extraction and provide copies to the surface land owner, the Division and the water conservancy district.

Frequency: As needed, six months prior to full extraction.

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 37.

Operator Comments

Underground mining operations have been idle with no production since 12/17/10. No new pre-subsidence surveys required with idle underground mining operations

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. There is no need to establish pre-mining elevations within the angle of draw at this time due to the mine being idle (CP-6/15/15).

Title: SUBSIDENCE MONITORING- RESURVEY NEW MONITORING POINTS

Objective: Resurvey new monitoring points established over partial pillar sections within six months after final mining has taken place beneath them. Provide dates that points were established to track if the points have been resurveyed within six months after final mining.

Frequency: as needed

Status: Ongoing

Reports: Track in annual report to ensure compliance. Resubmittal of monthly reports is not necessary if the operator has already submitted them. Division engineer will review reports annually to ensure compliance.

Citation: MRP, Chapter V, binder 1 of 3, page 36.

Operator Comments

N/A for 2013, no new monitoring points established. Underground mining operations have been idle with no production since 12/17/10.

Reviewer Comments ☒ Met Requirements

☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. There have been no new monitoring points established over advancing section such as mains and sub mains. There is no need to establish new monitoring points within the angle of draw at this time due to the mine being idle (CP-6/15/15).

Title: EMERY TOWN WELL MONITORING

Objective: Consol will evaluate data collected from the Emery town wells, using hydrographs and other appropriate means, and submit a report of findings to DOGM with the Annual Report.

Frequency: Annually

Status: Ongoing

Reports: Annual Report

Citation: Chapter VI, page VI-56.

Operator Comments

Refer to Appendix B-4 for the Emery Town Well Update report dated 1/15/2015.

Reviewer Comments ☐ Did Not Meet Requirements ☒ Met Requirements

In Appendix B-4, the Permittee provides a report of the Emery Town wells. The report was produced by Richard White P.E., EarthFax Engineering Group LLC. The report provides a spreadsheet of the water quality data obtained from the Division of Oil, Gas and Mining's Water Monitoring Database. Additionally, a chart was provided that depicts the depth to water measurements obtained from Emery Town Well #2.

Title: MONITOR FIVE ELIGIBLE SITES IN THE ZERO ZERO NORTH AREA FOR IMPACTS FROM MINING

Objective: To monitor eligible cultural resource sites that could be damaged as a result of subsidence. Sites include: 42Em3964, 42Em3965, 42Em3966, 42Em3969, 42Em3974.

Frequency: Annually after undermining until the Division determines subsidence is no longer an impact.

Status: Ongoing. Undermining was expected to occur in 2010.

Reports: Annual Report

Citation: MRP, Confidential, Chap. X, Part A. page1.

Operator Comments

These sites have not been undermined at this time

Reviewer Comments ☒ Met Requirements ☐ Did Not Meet Requirements

Underground mining operations have been idle with no production at the site since 12/17/10. Only first mining has been completed in the zero zero north panel with no subsidence. If the mining company resumes active mining operations and begins second or retreat mining in the zero zero north panel the Division will require the company to monitor these sites, 42Em3964, 42Em3965, 42Em3966, 42Em3969 and 42Em3974.

Title: WATER MONITORING

Objective: Consol will provide an annual water monitoring summary to be submitted by March 31st.

Frequency: Annually

Status: Ongoing

Reports: Annual Report

Citation: Chapter VI, page VI-28.

Operator Comments

Reviewer Comments ☐ Met Requirements ☒ Did Not Meet Requirements

It appears that the Permittee did not provide an annual water monitoring summary for the Emery Deep water monitoring points. The Permittee must provide the annual water monitoring summary as outlined in chapter VI, Section VI.3.1.2 pg. VI-28.

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: SOIL SAMPLING AT 4TH EAST PORTAL

Objective: Verify soil characteristics prior to final reclamation grading through sampling and analysis for pH, SAR, and EC with particular attention to those areas that were treated with dust suppressant.

Frequency: At final reclamation.

Status: At final reclamation.

Reports: report findings to Division.

Citation: MRP, Chapter III part C.1, page 11 and Appendix X, part C-3, page 24.

Title: SOIL SAMPLING OF POND NO. 4 AND POND NO. 9

Objective: To determine if evaporative salts have accumulated to a toxic level.

Frequency: at final reclamation

Status: at final reclamation.

Reports: report to the Division.

Citation: MRP, Chapter III, part C-1, page 12.

Title: SOIL TESTING OF RECLAIMED SITE BEFORE SEEDING

Objective: To verify the suitability of the growth media.

Frequency: At reclamation.

Status: At reclamation, before seeding.

Reports: report to Division.

Citation: MRP, Chapter VIII, part C-4, page 21, paragraph 1.

Title: PERMANENT WASTE DISPOSAL SITE SUBSTITUTE TOPSOIL AND SUBSOIL COVER

Objective: To determine how to segregate best available material within the disturbed area for use as substitute topsoil from less desirable material to be used as cover over the coal mine waste permanent disposal site.

Frequency: Prior to construction of permanent disposal site, Consol will resample the gravel pit site for topsoil substitute quality and quantity, and cover material quality. The site will be sampled on one sample per acre grid, with analysis on one foot

Status: Future Commitment

Reports: report to Division.

Citation: MRP, Chap VII, App. VII-2, pg. 2

Title: IDENTIFY CHEMICAL CHARACTERISTICS OF COAL MINE WASTE PRIOR TO FINAL BURIAL OR TREATMENT

Objective: In accordance with R645-301-731.300, determine chemical characteristics of coal mine waste in existing temporary coal mine waste stockpile. Commitment to core temporary pile in at least 5 locations and analyze waste in 5 ft. intervals for pH, EC, SAR, Acid Base Accounting, Se, B, and texture.

Frequency: One year prior to moving the waste

Status: Future Commitment

Reports: report to Division.

Citation: MRP, Chap III, pg. 13

OPERATOR COMMENTS (OPTIONAL)

REVIEWER COMMENTS

NA

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

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Reviewer Comments

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MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual subsidence map		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments ☐ Met Requirements ☐ Did Not Meet Requirements